

VERSION DESCRIPTION DOCUMENT FOR THE YEAR 2000 (Y2K) SCAN TOOL

Release 1.0

NASA-VDD-13

PrISMS Contract

April 1997



National Aeronautics and
Space Administration

George C. Marshall Space Flight Center
Huntsville, AL 35812

**VERSION DESCRIPTION DOCUMENT FOR THE
Year 2000 (Y2K) Scan Tool
RELEASE 1.0**

Submitted by

Jim Crowell	Date
Functional Area Lead	

Reviewed by
CSC

Hector Garcia	Date	Jim Cofer	Date
Agencywide IRM		Configuration Management	

Richard Bishop	Date
DBA	

Prepared by

Computer Sciences Corporation, Contract NAS8-60000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GEORGE C. MARSHALL SPACE FLIGHT CENTER
HUNTSVILLE, ALABAMA

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Approved by

Sheila Fogle
Consolidation Center
Project Manager

Date

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1. INTRODUCTION

This Version Description Document (VDD) describes the installation procedures for the release of the Year 2000 Scan Tool. This section identifies the release, describes its purpose, defines its scope, and identifies its contact points. This tool is provided to assist with your site's evaluation of ADABAS/NATURAL software. It is not a SESAAS-maintained product but is being used in the SESAAS environment to assist in the Year 2000 analysis. SESAAS support personnel will answer questions regarding installation of the product; however, ongoing maintenance support is currently not envisioned.

1.1 IDENTIFICATION OF THE RELEASE

This software release is identified as Y2K, Release 1.0 and has an effective release date of April 1997.

1.2 PURPOSE OF THE RELEASE

This release is the initial implementation the Year 2000 (Y2K) Scan Tool.

1.3 SCOPE

This VDD provides the technical user of the Y2K Scan Tool with information regarding the contents, status, and structure of Release 1.0, including the following:

- Detailed software installation instructions.

No waivers are associated with this release.

1.4 CONTACT POINTS

The Y2K Scan Tool is a Commercial-Off-The-Shelf (COTS) software package and will not require any Sustaining Engineering. Help for the Y2K Scan Tool is provided through the Consolidation Center (CC) located at Marshall Space Flight Center (MSFC). Questions regarding the function and/or the technical aspects as well as the installation of this release should be directed to:

The NACC Technical Services Center (use following Key Words: SESAAS and NPDMs or NEMS).

Telephone: (205) 544-6673
Email: jim.crowell@msfc.nasa.gov
FAX: (205) 544-1836

2. FUNCTIONAL INFORMATION

This section includes details regarding functional changes, functional interfaces, critical issues, affected documents, and application system administration.

2.1 FUNCTIONAL CHANGES

Appendix D, Installation Instructions, describes all Software PREDICT changes related to this release.

2.2 FUNCTIONAL INTERFACES

This release has no functional impact on interfaces with NASA application.

2.3 CRITICAL ISSUES

This section is not applicable for this release.

2.4 AFFECTED DOCUMENTS

No documents are affected by this release.

2.5 APPLICATION SYSTEM ADMINISTRATION

There are no application system administration changes associated with this release.

3. TECHNICAL INFORMATION

This section includes details regarding technical system interfaces, data dictionary changes, software object changes, and database administration activities.

3.1 TECHNICAL SYSTEM INTERFACES

There are no technical systems interface issues with this release.

3.2 DATA DICTIONARY CHANGES

There is an initial data dictionary provided in this release.

3.3 SOFTWARE OBJECT CHANGES

Modules affected by this release are included in Appendix D, Section 2.2.

3.4 DATABASE ADMINISTRATION

This section describes the database administration activities for installation of this release.

3.4.1 Release Dataset Names

Refer to Appendix D, Introduction section, for the release dataset names.

3.4.2 Inventory of Objects

Refer to Appendix D, Paragraph 2.1, for an inventory of Natural object types.

3.4.3 Storage Considerations

The changes represented by this release should not affect storage requirements.

3.4.4 Installation Procedures

Refer to Appendix D, Installation Instructions for Y2K Software Release 1.0 for detailed software installation procedures.

3.5 OPERATIONAL PREPARATION

Refer to the procedure described in Appendix D for assistance in preparing for proper installation and operational use of this release.

4. KNOWN AND OPEN PROBLEMS

There are no known or open problems related to this release.

Appendix A - ABBREVIATIONS AND ACRONYMS

CC	Consolidation Center
CCR	Change Control Request
COTS	Commercial-Off-The-Shelf
CSC	Computer Sciences Corporation
DBA	Database Administrator
DR	Discrepancy Report
FAX	Electronic Facsimile Transmission
IRM	Information Resources Management
JCL	Job Control Language
MSFC	Marshall Space Flight Center
NACC	NASA Automated Data Processing (ADP) Consolidation Center
NASA	National Aeronautics and Space Administration
NEMS	NASA Equipment Management System
NPDMS	NASA Property Disposal Management System
SESAAS	Sustaining Engineering Support for Agencywide Administrative Systems
VDD	Version Description Document
Y2K	Year 2000

Appendix B - GLOSSARY

Database Administration

Responsibility for maintaining the physical database environment.

Implementation

The process by which a NASA site installs a NASA software release and places it into operational use.

Operational Preparation

Preparation by a NASA site for installation and use of a NASA application release.

System Administration

Responsibility for administrative functions such as application security and table data maintenance associated with a NASA application.

Appendix C - FUNCTIONAL CHANGE VALIDATION PROCEDURES

Not applicable with this release.

Appendix D - INSTALLATION INSTRUCTIONS AND CHECKLIST FOR Y2K SOFTWARE RELEASE 1.0

Introduction

Release information:

System Name: Y2K
Release Number: 1.0
Release Date: April 1997
Effective Date: Immediately

In case of installation problems, contact the NASA Automated Data Processing (ADP) Consolidation Center (NACC) Technical Services Center (use the following Key Words: SESAAS and NPDMS or NEMS).

Telephone: (205) 544-6673
Email: jim.crowell@msfc.nasa.gov
FAX: (205) 544-1836

The following datasets are located on the NASA Central Distribution Facility as NASA data sets.

- AIMS.Y2K.PROD.REL100.REL0497.SRC
- AIMS.Y2K.PROD.REL100.REL0497.DOC
- AIMS.Y2K.PROD.REL100.REL0497.PRD

Installation Sequence

The sequence in which the installation of this release should occur is provided in the following list. A checklist is provided in section 9.0 to assist in tracking the installation of this release.

- 1.0 Back Up Existing Data
- 2.0 Copy Source/Object Code
- 3.0 Pre-Predict Data Conversion
- 4.0 Install Predict
- 5.0 Catalog Source Code
- 6.0 Post-Predict Data Conversion
- 7.0 Perform Release-Specific Procedures
- 8.0 Local JCL Mods
- 9.0 Installation Checklist

1.0 Back Up Existing Data

Not applicable with this release.

2.0 Copy Source/Object Code

2.1 Copy Source Code

Define library Y2K and load the Y2K source into Y2K library from dataset AIMS.Y2K.PROD.REL100.REL0497.SRC. The source programs were unloaded using the Natural utility NATUNLD. The programs will be loaded to the application library Y2K, replacing any existing programs of the same name. The source module counts included in this release are listed below:

Natural Source Modules By Type

GLOBAL DATA AREA	1
LOCAL/PARAM DATA AREA	0
MAPS	3
HELP ROUTINES	0
SUBROUTINES	1
SUBPROGRAMS	0
PROGRAMS	35
COPYCODE	1
TEXT	2
PROCESS	0
MISCELLANEOUS OBJECTS	0
Total:	43

2.2 List of Source Code Modifications

The following are the modules added, modified and deleted.

Added Modules

FIND	Program
FND	Program
FND-CC	Copycode
FTBL	Program
INITIAL	Program
INT	Program
LOOK	Program
NUM	Program
REL	Program
RPT-TEST	Program
S-CTL	Program
S-DDFLD	Program
S-DIS	Program
S-ERR	Program
S-EXFLD	Program
S-EXRTN	Subroutine
S-GLOB	Global
S-INFLD	Program
S-RMFLD	Program
S-WRAP	Program
TBL	Program
TBLERR	Program
TTBL	Program
Y-ACTE	Map
Y-ACTH	Map
Y-KEYTXT	Text
Y-MENU	Program
Y-RPT	Program
Y-RPT-N	Program
Y-RPT1	Program
Y-RPT2	Program
Y-RPT3	Program
Y-SKEL	Program
Y-TBLE	Program
Y-TBLF	Program
Y-TBLR	Program
Y-TBLS	Program
Y-TBLSH	Map
Y-TBLV	Program
Y-WRK	Program
Y-WRK2	Program

Y-WRKTXT	Text
Y2K	Program

Changed Modules

There are no modules changed with this release.

Deleted Modules

There are no modules deleted with this release.

2.3 Copy Object Modules

There are no copy object modules with this release.

3.0 Pre-Predict Data Conversion

Not applicable with this release.

4.0 Install Predict

Use SYSDICBE to load all PREDICT data from the dataset AIMS.Y2K.PROD.REL100.REL0497.PRD. The object types and inventory listed below represent a comprehensive count of the Predict object modules for this release.

Predict Objects by Type

Keyword	2
Standard Files	0
Physical Files	1
User views	0
Data Elements	25
Program Descriptions	0

4.1 Physical File Changes

The following file changes must be made for this release. Generate ADAWAN cards and generate all Data Definition Modules (DDMs) with Line Comment = N, General Comment = N, and Short Comment = 0.

File Y2K-FILE has been released under the file #055. If you wish to use a different number, modify PREDICT, after the PREDICT load, to change the Y2K-FILE number. Also be sure to add the new physical file, Y2K-FILE, using the same number.

New Files

Y2K-FILE					FILE #055				
*Ty	L	Field name	*F	Length	Occ	D	U	DB	S
	1	LIBRARY-NAME	A	8.0				AA	N
	1	NEW-LIBRARY-NAME	A	8.0				AB	N
	1	STATUS-LIB-MDL	A	1.0				AC	N
	1	MODULE-NAME	A	8.0		D		AD	N
	1	SER-NO	A	3.0				AE	N
	1	MODULE-TYPE	A	1.0				AF	N
	1	SAVE-DATE	T					AG	N
	1	SAVE-USERID	A	8.0				AH	N
SP	1	Y2K-KEY	A	20.0		D		AI	N
PE	1	FIELD-GROUP			15			AJ	
	2	FIELD-NAME	A	32.0				AK	N
	2	FIELD-FORMAT	A	6.0				AL	N
	2	FIELD-LINE-NO	A	4.0				AM	N
	2	FIELD-STATUS	A	1.0				AN	N
	2	FIELD-XREF	A	100.0				AO	N
	2	FIELD-FILE-NO	A	3.0				AP	N
	2	FIELD-MODULE	A	8.0				AQ	N
	2	FIELD-MISC	A	5.0				AR	N
	2	FIELD-RULE	A	3.0				AS	N
	1	TABLE-TYPE	A	1.0				AT	N
	1	TABLE-ARGUMENT	A	50.0				AU	N
	1	TABLE-FUNCTION	A	50.0		D		AV	N
	1	TABLE-FORMAT	A	6.0				AW	N
	1	TABLE-XREF	A	50.0		D		AX	N
SP	1	TABLE-KEY	A	101.0		D		AY	N

Three other files are used. SYSDIC-FI and SYSDIC-EL are used for getting PREDICT information and their definition is supplied by SAG. A user view called FUSER2 is used to get source program information. FUSER2 is based on the FUSER definition which is supplied by SAG. The FUSER2 view uses two fields: SOURCE-PROGRAM-IDENT (ADABAS field LJ) and SOURCE-CODE (ADABAS field LK, an MU occurring 60 times). If your center does not have an FUSER2 definition or wants to use FUSER user view instead, you will need to modify the NATURAL modules which reference FUSER2.

The Y2K-FILE should be update linked to the Y2K application and the other files (SYSDIC-EL, SYSDIC-FI and FUSER2) should be read-linked.

5.0 Catalog Source Code

Run a batch job to catalog (CATALL) all modules in the Y2KLIB or other named library. It is necessary to catalog the Global Data Area. The NASA Batch standard parameters should be used for the compile.

After all objects are compiled, the Y2K application will run under the NASA On-line standard parameter.

6.0 Post-Predict Data Conversion

There is no post-Predict data conversion required.

7.0 Perform Release-Specific Procedures

There are no release-specific procedures for this release.

8.0 Local JCL Mods

There are no local JCL mods for this release.

9.0 Installation Checklist

- 2.1 Copy Source Code
- 4.0 Install Predict
- 5.0 Catalog Source Code